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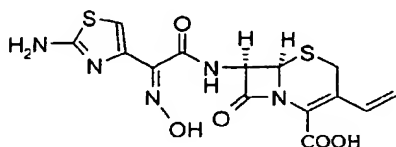
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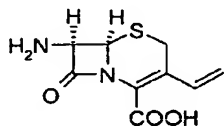
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(54) Title: NOVEL AMORPHOUS HYDRATE OF A CEPHALOSPORIN ANTIBIOTIC

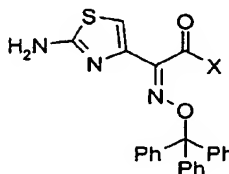


(I)

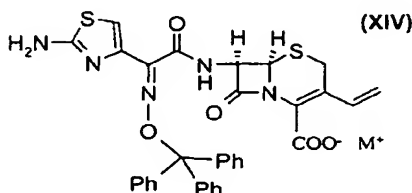
(57) Abstract: A process for the preparation of cefdinir of the formula (I) the said process comprising the steps of :i) condensing 7-amino-3-cephem-4-carboxylic acid of the formula (XII) wherein R1 is as defined above with compound of the formula (XIII) in the presence of a tertiary amine and an organic solvent, followed by treatment with a base to produce a salt of compound formula (XIV), wherein M⁺ is a counter ion and ii) hydrolyzing the compound of the formula (XIV) using an acid in the presence of a solvent to produce cefdinir of formula (I).



(XII)



(XIII)



(XIV)

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